

CLAIMS

(96)

1. A lock (1) for a door of a motor vehicle comprising:

- 5 - a closing mechanism (6) designed for coupling with a lock striker (2) along a direction (B) of relative coupling;
- a supporting body (4) of said closing mechanism (6) having a housing seat (5) for an engagement portion
10 (3) of said lock striker (2); said housing seat (5) having an entry area (11) for said engagement portion (3) and being delimited:
 - o laterally, by a pair of faced ramps (15) diverging with respect to one another towards
15 said entry area (11), and
 - o at an end opposite to said entry area (11), by a bottom wall (12) orthogonal to said direction (B) of relative coupling;
- elastically compliant arrest means (30) coupled to
20 said bottom wall (12) to delimit said housing seat (5) in said direction (B) of relative coupling in order to define damped arrest of said engagement portion (3) of said lock striker (2); said arrest means (30) being coated on their surface, in the area of interaction
25 with said engagement portion (3) of said lock striker (2), by a rigid protective shield (40);

- 13 -

characterized in that said shield (40) is carried by said arrest means (30) and is distinct from said ramps (15).

2. The lock according to Claim 1, characterized in that said shield (40) is constituted by a plate having opposite lateral edges (41) folded on said arrest means (30).

3. The lock according to Claim 1 or Claim 2, characterized in that said arrest means comprise a flexible element (30) fixed to said bottom wall (12)).

10 4. The lock according to Claim 3, characterized in that said flexible element (30) is made of an elastomeric material.

5. The lock according to Claim 3 or Claim 4, characterized in that said flexible element (30) and said shield (40) have, in the area of interaction with said engagement portion (3) of said lock striker (2), a U-shaped conformation.

6. The lock according to any one of Claims 3 to 5, characterized in that said shield (40) is fixed by forcing on said flexible element (30).

7. The lock according to any one of the preceding claims, characterized in that said shield (40) has, in the area of interaction with said engagement portion (3) of said lock striker (2), a surface coating of ceramic material.